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L2	2	"6078867".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 12:58
L3	2	"6069118".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 12:58
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L9	0	703/2.ccls. and (fault\$3 or fractur\$3 same borehole same subsurface) and node same force near 3equal\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 13:26
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S15	1	accumulator same hierarch\$6 and intermed\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/16 18:05
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S49	2	"6370491".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 14:59
S50	9	dynamic adj range adj relaxation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 13:20

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Date: 1/19/2006



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Inventor Name Search Result

Your Search was:

Last Name = HARDY

First Name = HUMPHREY

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09542307	6370491	150	04/04/2000	Method of modeling of faulting and fracturing in the earth	HARDY, HUMPHREY H.
09664176	6571177	150	09/18/2000	COLOR DISPLAYS OF MULTIPLE SLICES OF 3-D SEISMIC DATA	HARDY, HUMPHREY H.
09923048	Not Issued	95	08/06/2001	METHOD OF MODELING OF FAULTING AND FRACTURING IN THE EARTH	HARDY, HUMPHREY H.
09923060	Not Issued	99	08/06/2001	METHOD OF MODELING OF FAULTING AND FRACTURING IN THE EARTH	HARDY, HUMPHREY H.
09949966	Not Issued	95	09/10/2001	METHOD OF MODELING OF FAULTING AND FRACTURING IN THE EARTH	HARDY, HUMPHREY H.
10036813	Not Issued	71	12/21/2001	Method of load and failure prediction of downhole liners and wellbores	HARDY, HUMPHREY H.

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The History of Horizontal Wells in the V Fields

SPE eLibrary Draining low relief, flmk arms of the field, Accessing multiple, potentially isolated fault compartments, The degree of success has been mixed, Some wells surpassed their objectives while others have been disappointing. ORIGINAL DEVELOPMENT CONCEPT The original V Fields development plan envisaged producing the gas by locating wells in structural highs where either Zone C could be accessed, or where there was sufficient structural height to fracture Zone B without risk of water production.

92%



Safah Field: A Case History of Field Development

SPE eLibrary The mechanism separating the reservoirs is not clear, but is suspected to be small amplitude normal faults (Figure 4).

86%



Oil and Gas Investor Every Month Temblor formation shakes gas loose

E&Pnet Westminster Resources Ltd., one of the partners in the well, said the target was a seismically defined, fault-bounded anticline with potential reserves from 1 Tcf to 2 Tcf of gas. After an assessment, the partners speculated the tight fold that was the drilling target formed the anticline and created a fracture system in the brittle sandstone. Those fractures caused the lost circulation and the high gas flow, but they also allowed water to travel up to the producing zone.

73%



Reservoir Modeling of Marginal Aeolian/Sabkha Sequences, Southern North Sea (U.K. Sector)

SPE eLibrary Page 1 of SPE 18155 Reservoir Modeling of Marginal Aeolian/Sabkha Sequences, Southern North Sea (U.K. Sector) by J.H. Martin, * Intl. Petroleum Engineering Consultants Ltd., and P.F. Evans, Keele U. q SPE Member 2op@@rt 1SSS, Society of Petroleum Engineer. M paper was prepared for presentation at the 1995 Annual Technical Conference and Exhibition of the Society of Petroleum Engineers held in

+oLwtorr,lx, Ootober 2-5, 1ss2. MS paper waa seleoted for preeentatbn by an SPE Program Cammitlaa fotbwng rmview of Information contxlnd In qn abotraof oubmrkted by the Mfwr(o), Contentc of ttw paper, M presented, have nor been revkwed by the Society of

71%



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Enterprise Oil has signed an 8-year exploration agreement for Morocco's Cap Draa Haute Mer deepwater block south of Agadir with state oil company Office National de Recherches & d'Exploitations Pétrolières. The company will spud the No. 2 well to test the Hemlock formation in an adjacent fault block and plans up to three additional wells. 15.

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Post-Yield Material Characterization for Thermal Well Design

SPE eLibrary This paper proposes a new basis for characterizing mechanical steel properties that provides the static strength and stiffness over the post-yield strain range. Relaxation characteristics are interpreted from testing, and local stiffness properties are provided. Finally, the rate to complete the test to failure and determine the ultimate, or tensile, strength is specified to be in the range of $8.3 \times 10^{-4} \text{ s}^{-1}$ to $8.3 \times 10^{-3} \text{ s}^{-1}$. The rates for yield and ultimate have only a small overlapping range of $8.3 \times 10^{-4} \text{ s}^{-1}$ to $10 \times 10^{-4} \text{ s}^{-1}$.

97%



Wettability Index Determination by Nuclear Magnetic Resonance











SPE eLibrary A reduction of the oil relaxation time away from its bulk value is generally known as a qualitative wettability indicator. Wettability ranges from pure waterwet, via intermediate, or neutral, to oilwet. Its wettability index ranges from +1 for fully waterwet to -1 for fully oilwet. Subsequently, it has become clear that in non-waterwet rock the oil experiences an accelerated relaxation.

97%



When Should We Worry About Supercharging in Formation Pressure While Drilling Measurements?

SPE eLibrary Also, because the formation pressure while drilling tools may test the formation shortly after it has first been drilled, there can be comparatively little time for elevated pressures to relax. While this may be practical for the rheology and static filtration properties, the measurement of dynamic filtration characteristics requires more complicated apparatus. For that reason, for the dynamic parameters it may be necessary to rely on a library of typical values or to recognize that a significant uncertainty enters here and to simulate a range of cases.

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- 97%  [Molecular Degradation, Injectivity, and Elastic Properties of Polymer Solutions](#)
SPE eLibrary Page 1 Page 2 Page 3 Page 4 Page 5 Page 6 Page 7 Page 8 Page 9
- 97%  [The Effects of Pressure and Rotary Speed on the Drag Bit Drilling Strength of Deep Formations](#)
SPE eLibrary The five rock types were chosen to cover a broad range of permeability, strength and porosity values. These data are used to evaluate the effects of rotary speed and bit weight on TSD cutter wear in deep formations using the analysis provided by ~JhJkZi.'2 Dynamic Confinement Model Dynamic confinement pressures arise when the magnitude of dilatant inelastic volumetric strain is greater than the compressive elastic strain. Finally, the ratio of dynamically confined to unconfined rock strength is calculated. Table i lists the observed rock properties required to obtain the dynamic confinement pressure.
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- 97%  [Crosslinked Borate HPG Equilibria and Rheological Characterization](#)
SPE eLibrary A model to predict the relaxation time for a reversibly crosslinked polymers in concentrated solution or melt regime has been presented by LeWe#2. The properties of crosslinked borate gels in dynamic oscillatory shear have been studied by Pezron et al.^{1,2,3} and Kesavan and Prud'homme.² The gels were subjected to dynamic oscillatory shear to determine the modulus and relaxation time. Steady shear experiments were performed in capillary tubes at shear rates higher than the critical shear rate, which is the reciprocal of the relaxation time, so that...
- 97%  [Enhanced In-Situ Stress Profiling With Microfracture, Core, and Sonic-Logging Data](#)
SPE eLibrary Core testing provides stress measurements through stress/strain relaxation methods. 8.9 Under ideal core recovery and gauge-resolution conditions, the calculated values can be within an acceptable range. 3 Also, core-measured Poisson's ratios (PRs) (both static and dynamic) can be used with elastic modeling efforts to estimate stress.
- 97%  [Characterization of Crosslinked Gel Kinetics and Gel Strength Using NMR](#)
SPE eLibrary Clusters range from small, starlike molecules to large heavily cross-linked, and fairly concentrated microgel cores.¹ In the present work we studied the crosslinking of an aqueous HPAm/Cr(III)-acetate gel through visual observation (bottle testing), rheological monitoring, and low field NMR relaxation. In this paper, we present first a brief literature review of the gelation kinetics, basics on the dynamic rheology

characterization, and low field NMR theory.

97%



A Real-Time Well Site Log Analysis Application Using MRI Logs

SPE eLibrary A set of procedures has been developed to guide the process so that reasonable interpretations can be obtained over a broad range of operating conditions. It relies on contrasting rates of longitudinal relaxation times, or T1, among the fluids present in the reservoir. Based on estimates of fluid relaxation times and the fluid-parameter boundary conditions, a search is performed on EDIF to extract optimized T2 values for oil and gas.

97%



Advanced Sensor Infrastructure for Real Time Reservoir Monitoring

SPE eLibrary Sensors cover a wide range of parameters, including distributed temperature, pressure, acoustic sensors and acoustic sensor arrays for in-reservoir imaging of formation, fluid front movements and seismic relaxation. Sensor Dynamics and Chevron have developed a different approach to permanent downhole monitoring which we believe will provide the infrastructure with which to create a paradigm shift in reservoir management.

97%



Magnetic Resonance Relaxation-Tomography to Assess Fractures Induced in Vugular Carbonate Cores

SPE eLibrary By combining voxel-by-voxel signal intensity from the porosity map and relaxation time from the relaxation time map, one get the distribution of the signal intensity as a function of the relaxation time for selected internal regions of interest (ROI). One can compute the fraction of water in the ROI, relative to the total amount of water in the ROI, having relaxation time in a selected range. The histograms of relaxation times of selected ROI's were obtained. The RT technique has three different requirements: quantitative porosity images, relaxation time maps, and non-spatially-resolved relaxation measurements (as reference).

97%



Applications of Wireline Stress Measurements

SPE eLibrary Examples of stress tests carried out in a wide range of formations are presented, with applications to the design of hydraulic stimulations, the stability of deviated wells, screenless completions for sand control, and enhanced recovery programs. These techniques include overcoring, analysis of focal mechanisms of induced seismicity, size of breakouts, and core relaxation differential strain curve analysis and anelastic strain recovery Equipment The tool used to perform the stress tests reported in this paper is the wireline-conveyed MDT* modular formation dynamics tester.

96%



Numerical Simulations of NMR Responses for Improved Interpretations of NMR Measurements in Reservoir Rocks

SPE eLibrary The estimation of dynamic flow properties, such as permeability, from non-dynamic NMR measurements has limitations, of course. However, the relaxation time, and hence the NMR estimated permeability, will be finite. The connection between NMR relaxation measurements and petrophysical parameters such as permeability stems from the strong effect that the rock surface has on promoting magnetic relaxation. 2) S/V is the surface-to-volume ratio of the pore, T2b is bulk relaxation time of the fluid that fills the pore space, and is the surface relaxation strength.

96%



Experimental Evaluation of Viscoelastic Theories

SPE eLibrary linear dynamic data with viscosity and first normal stress data in viscometric flow. only and the directly pertinent theoretical results are presented for each theory. s Da p2 The relaxation spectra were approximated by an T12 expression given by St-erman and Schwarz114 --- $K = q(l<)$ and reported by Ferry: $w Jf H(A)e^{-s/A} = mF/J: \sim s \sim$ $^{\text{knxds}} [a] [l \ d - GII H(l) = \# G" - d(\ln m)y. \sim - q [14] o -w al T11-T27$ This first approximation was successively $\sim Z----$ = corrected until the relaxation spectrum would m- xe\$roduce the G" curve. Corrections to the JJ \sim c-s/, 7 relaxation spectra were taken as the different $a(l+X;: d\ln)ds$.

96%

**VHF ELECTRICAL MEASUREMENT OF SATURATIONS IN LABORATORY FLOODS**

SPE eLibrary Other previous electrical methods were based on the dielectric constant of porous media in the radio frequency (rf) range below 30 MHz. At microwave frequencies, the dipolar relaxation dominates ϵ'' . In the 200 MHz to 1.2 GHz range ϵ'' increases with increasing salinity. The dielectric loss ϵ'' decreases as f -I but begins to flatten out above 100 MHz as the dipolar relaxation losses increase. 10.

96%

**Studies on the Damage Induced by Drilling Fluids in Limestone Cores**

SPE eLibrary Low frequency (2 MHz) nuclear magnetic resonance relaxation (NMRR) measurements were also used for following the effect of solid mud particulate invasion on the pore size distribution. The new methods, considered in this paper, are namely the nuclear magnetic resonance imaging (NMRI) and nuclear magnetic resonance relaxation (NMRR) techniques, combined with non conventional rheological approaches, particle size distribution (PSD) analysis, mud cake and spurt loss characterizations.

96%

**Nuclear Magnetic Resonance (NMR), a valuable tool for Tar detection in a Carbonate Formation of Abu Dhabi.**

SPE eLibrary NMR transverse T2 relaxation contains useful petrophysical and geological information. There are three independent phenomena controlling fluid relaxation in the rock pore space: Surface relaxation mechanism Bulk fluid relaxation mechanism Molecular diffusion mechanism. The overall rate of decay can be expressed as $\frac{1}{T_2} = \frac{1}{T_2} + \frac{1}{T_2} + \frac{1}{T_2}$ (Equation #1) where T_2 is the total transverse relaxation time, T_2 is the surface relaxation, T_2 is the bulk fluid relaxation and T_2 is the diffusion relaxation. Bulk relaxation refers to the relaxation time of a fluid in a large container within a constant magnetic field.

96%

**Specific Surface and Fluid Transport in Sandstones Through NMR Studies**

SPE eLibrary With this aim, properties such as permeability, porosity, ρ_b , ρ_{fr} , and relaxation time were measured and their correlations studied. The strategy of the krviies to predict sandstone permeability through T1 relaxation lifetimes is to look for whwx for exponents B and C irr Tfr, @ thrr that bt predict.meamred k values. A good estimation of k, however, often can be found by relaxation lifednre3, apparently becau3e of the correlation exkdnng between pore-node and pore-throat sizes in sandstones. Care wa.\$ taken to cover a wide range of permeability values without includ- ing samples with signiihmt shalimss.

96%

**NMRI Characterization of Fractures and Multiphase Transport in Fractured Porous Media**

SPE eLibrary This technique is based on the feature that the observed NMR relaxation rate in porous media is dominated by relaxation at surfacesslo. Suppose that fluid in one of the regions can be approximately characterized by relaxation time T_2 . The spins in the fractures may be suitably treated as relaxing at a single rate. However, the relaxation in the pore matrix usually is not well represented with a single exponential.

95%

**Study of Calcium Carbonate Precipitation in the Near-Well Region Using $^{47}\text{Ca}^{2+}$ as Tracer**

SPE eLibrary The technique is applicable for dynamic scaling investigations in any flowing system in porous media and constitutes a valuable tool for further studies of scaling mechanisms involved in processes occurring in a variety of systems (oilfield, geothermal, desalination etc). For example, a certain 'relaxation time', t_r , is required for the system to achieve a quasi-state distribution of molecular clusters.

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